DECEMBER 2022
GROUNDWATER SAMPLING EVENT REPORT

FOR

HAHN MOTOR COMPANY
1201 SOUTH 1ST STREET
YAKIMA, WASHINGTON 98901

Facility Site ID No. 502
Cleanup Site ID No. 4927
VCP Project No. CE0529

January 27, 2023

Prepared for:

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And

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Licensed Hydrogeologist and Geologist

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PO Box 545/125 Main St.
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509-520-6519

PROJECT SUMMARY

Client:	Ms. Debra Manjarrez Manjarrez & De Leon Inc, PS 2010 West Nob Hill Blvd, Suite 1 Yakima, Washington 98902
Point of Contact:	Ms. Debra Manjarrez
Property:	Hahn Motor Company 1201 South 1st Street Yakima, Washington 98901
Major Commercial Activity:	Automotive Sales and Automobile Repair
VCP Project ID Number:	CE0529
Licensed Hydrogeologist/Geologist:	Brent N. Bergeron, LHG, LG
License Number/Expiration:	LHG #2267, expires 1/3/2024 LG #2267, expires 1/3/2024
Project Number:	E2022/1204
Report Date:	January 27, 2023

Legal description: Tax Parcel 191330-13032 in the southwest quarter of the northeast quarter of Section 30, Township 13 North, Range 19 E.W.M; Latitude 46º 35' 17.37" North, Longitude 120º 29'52.41" West.

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1.0 INTRODUCTION

On December 15, 2022, Blue Mountain Environmental and Consulting Company, Inc. (BMEC) mobilized to 1201 South 1st Street in Yakima, Washington 98901 (Site) and performed a groundwater sampling event involving all six monitoring wells (MW1 through MW6). Depth-to-water measurements were collected from all six wells and each of the six groundwater samples collected were analyzed for total petroleum hydrocarbons – gasoline range (TPH-G), TPH – diesel range (TPH-D), total petroleum hydrocarbons – heavy oil range (TPH-O), volatile organic compounds (VOCs), and total metals. A Site Vicinity Map is included as **Figure 1**.

1.1 Location

The 1.5-acre (approximate) Site is located in the City of Yakima, Yakima County, Washington, at the southeast corner of the intersection of South 1st Street and East Arlington Street (**Figures 2 - 4**). The Site consists of one tax parcel (191330-13032) and is located in the southwest quarter of the northeast quarter of Section 30, Township 13 North, Range 19 E.W.M. The elevation is approximately 1,041 feet above mean sea level and the Site is relatively flat with primarily asphalt ground cover. The nearest major body of water is the Yakima River approximately 1.5 miles east of the Site. The Site is surrounded by commercial then residential property to the east, commercial property then light industry to the north, commercial property to the northwest, commercial property then railroad property to the west, and commercial property to the south. There are no flood zones or wetlands associated with the Site.

1.2 General Site Information

As of February 23, 2016, the property was owned by Mr. Richard Hahn. The current owner of the property is the Estate of Douglas F Bettarel, represented by Ms. Debra Manjarrez of Manjarrez and De Leon Inc, PS. BMEC is currently working for Manjarrez and De Leon Inc, PS.

One building is located on the Site (**Figures 2 – 4**). The rectangular building located on the northwest corner of the property consists of an automobile showroom with offices on the western half, bathrooms and break room near the center of the building, and an automobile repair and automobile wash bay in the eastern half of the building. During the visit to the Site on February 1, 2022, a minimum of one sump was noticed on the interior of the eastern half of the building. The sump appeared to drain to the south toward the drywells which BMEC investigated via soil and groundwater sampling on February 1, 2022. The drywells and all associated petroleum and metals impacted soils were removed on July 12 and 13, 2022, and replaced by a single dry well on July 14, 2022.

2.0 GEOLOGY AND HYDROGEOLOGY

Based on the subsurface investigation field activities conducted at the Site on September 27 and 28, 2022, the following geologic soil conditions were encountered in soil borings MW1 and MW3 through MW6:

- 0 – 0.25': Asphalt.

- 0.25 – 2': Brown SILT (ML);
- 2 – 20': Brown to dark brown, sandy, well-rounded, coarse GRAVEL & COBBLES, with little silt, loose (GW); and
- 20 -25': Brown – gray, SAND & GRAVEL, well-rounded, coarse, loose, wet – very wet (SP/GP).

During the February 1, 2022, field activities, groundwater was encountered in soil borings SB1 at 11 feet bgs, SB3 at 16.3 feet bgs, SB4 at 18 feet bgs, and SB5 at 14.5 feet bgs. During the October 3, 2022, GWSE conducted at the Site, depths-to-groundwater ranged from 15.48 feet below top of casing (btoc) in well MW1, to 16.66 feet btoc in well MW2. The groundwater flow direction was determined to be to the southeast toward the Yakima River which is approximately 1.5 miles east of the Site with a hydraulic gradient of 0.005 feet per foot. The estimated flow direction in the deeper aquifer beneath the Site is also to the southeast with an approximate hydraulic gradient of 0.004 feet per foot.

3.0 PREVIOUS ENVIRONMENTAL FIELD ACTIVITIES

The existing facility was built in 1946 by Hahn Motors Company. A 2,000-gallon heating oil underground storage tank (UST) for the oil-fired boiler was installed in the northwest side of the building's basement to provide heat for the facility. A second 2,000-gallon UST was installed at the facility in the mid-1970's and both USTs were used to store used oil after the boiler was converted to burn used motor oil, which was plentiful available from the on-site conducted car services.

It was determined by Ecology on July 9, 2007, and documented via certified mail dated July 26, 2007, that Hahn Motor Company was in *Non-Compliance with the Underground Storage Tank Regulations Chapter 173-360* for not properly registering and upgrading their 2,000-gallon USTs prior to storage of waste oil. Via directive from Ecology as defined in the July 26, 2007 certified mail, both USTs were decommissioned by removal and backfill in November 2007. Approximately 50 cubic yards of PCS and asphalt were hauled off-site and disposed at the Anderson Disposal Facility in Yakima, Washington.

During the November 9, 2007, UST decommissioning activities, three soil samples were collected from the west, north, and east side of the eastern UST, yielding one heavy oil detection of 396 mg/Kg in the west sample. Similarly, three soil samples were collected from the west, north, and east side of the eastern UST, yielding heavy oil detections ranging between 155 – 492 mg/Kg. The MTCA Method A Cleanup Level for heavy oil is 2,000 mg/Kg. No gasoline range hydrocarbons were identified by laboratory analysis in any soil samples collected. Significant lead concentrations were detected in residual soil sampled and analyzed from the tank bottom(s).

In 2017, Ecology conducted semi-annual groundwater sampling of the YRRA groundwater monitoring network which is a six-square mile area located along the railroad corridor in the cities of Yakima and Union Gap, Washington. The YRRA was defined in 1991. The Site is located near the center of the YRRA which is impacted by chlorinated solvents, primarily PCE. Fifteen of the

39 groundwater samples collected from wells within the YRRA yielded concentrations ranging from 5 to 9,110 µg/L. The MTCA Cleanup Level for TCE in groundwater is 5 µg/L.

3.1 February 2022 - Subsurface Investigation

On February 1, 2022, BMEC hydrogeologist, Brent Bergeron, LHG, and BMEC environmental professional Yancy Meyer, supervised the advancement of six soil borings (SB1 through SB6) to depths varying between 15 feet and 25 feet bgs. The six soil borings were advanced via sonic drilling methodology by Environmental West Explorations (EWE) personnel. Continuous soil samples were brought to the surface via core barrel and sample bag methodology.

TPH-D was only quantified in one of the 21 soil samples at a concentration of 670 mg/Kg in sample SB1-2-1-22-10'. TPH-O was quantified in three of the 21 soil samples at concentrations of 1400 mg/Kg in sample SB1-2-1-22-10'; 6900 mg/Kg in sample SB5-2-1-22-10'; and 1100 mg/Kg in sample SB5-2-1-22-15'. The MTCA Method A Cleanup Level for TPH-D + TPH-O is 2000 mg/Kg which was only exceeded in samples SB1-2-1-22-10' and SB5-2-1-22-10'. TPH-G was performed on one soil sample. TPH-G was quantified in sample SB1-2-1-22-10' at 220 mg/Kg which exceeds the MTCA Method A Cleanup Level of 30 mg/Kg.

VOCs were analyzed for in three soil samples (SB1-2-1-22-10', SB3-2-1-22-25', and SB5-2-1-22-20') and detected in sample SB1-2-1-22-10' at concentrations that due not exceed any MTCA Method A Cleanup Levels. No VOCs were detected in soil samples SB3-2-1-22-25' and SB5-2-1-22-20'.

Cadmium was detected in one sample (SB1-2-1-22-10') at 2.5 mg/Kg which exceeds the MTCA Method A Cleanup Level of 2 mg/Kg. Chromium was detected in all 21 samples at concentrations ranging from 2.9 mg/Kg in sample SB5-2-1-22-20' to 34 mg/Kg in sample SB2-2-1-22-5' which was the only soil sample to exceed the MTCA Method A Cleanup Level of 19 mg/Kg. Lead was detected in four of the 21 soil samples at concentrations ranging from 9.4 mg/Kg in sample SB5-2-1-22-5' to 45 mg/Kg in sample SB1-2-1-22-10'. None of the four lead detections exceed the MTCA Method A Cleanup Level of 250 mg/Kg.

PAHs were analyzed for in three soil samples and detected in sample SB1-2-1-22-10' at concentrations that due not exceed any MTCA Method A Cleanup Levels. No PAHs were detected in soil samples SB3-2-1-22-25' and SB5-2-1-22-20'.

TPH-D and/or TPH-O were detected above the laboratory MRLs in all three groundwater samples collected (SB1-2-1-22-GW, SB3-2-1-2-GW, and SB5-2-1-22-GW). Furthermore, TPH-D + TPH-O were detected in samples SB1-2-1-22-GW and SB5-2-1-22-GW at concentrations of 9800 µg/L and 770 µg/L, respectively, which exceeded the MTCA Method A Cleanup Level of 500 µg/L. Groundwater sample SB1-2-1-22-GW was collected from immediately down-gradient of the dry well outside the automobile engine washing bay and groundwater sample SB5-2-1-22-GW was collected from between the two USTs removed from the north side of the building.

VOCs were analyzed for in all three groundwater samples (SB1-2-1-22-GW, SB3-2-1-22-GW, and SB5-2-1-22-GW). A combination of VOCs including PCE, benzene, ethylbenzene, and

naphthalene were detected in all three groundwater samples but not at concentrations exceeding established MTCA Method A Cleanup Levels.

Arsenic was detected in all three groundwater samples at concentrations exceeding the MTCA Method A Cleanup Level of 5 µg/L. Arsenic concentrations ranged from 51 µg/L in SB3-2-1-22-GW to 130 µg/L in SB5-2-1-22-GW. Chromium was detected in all three groundwater samples at concentrations exceeding the MTCA Method A Cleanup Level of 50 µg/L. Chromium concentrations ranged from 420 µg/L in SB3-2-1-22-GW to 1100 µg/L in SB5-2-1-22-GW. Lead was detected in all three groundwater samples at concentrations exceeding the MTCA Method A Cleanup Level of 15 µg/L. Lead concentrations ranged from 150 µg/L in SB3-2-1-22-GW to 1200 µg/L in SB1-2-1-22-GW. Cadmium was detected in groundwater samples SB1-2-1-22-GW and SB5-2-1-22-GW at 110 µg/L and 6.4 µg/L, respectively. The MTCA Method A Cleanup Level for cadmium in groundwater is 5 µg/L.

PAHs were analyzed for in all three groundwater samples (SB1-2-1-22-GW, SB3-2-1-22-GW, and SB5-2-1-22-GW). A combination of PAHs including 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene were detected in all three groundwater samples; however, not at concentrations exceeding established MTCA Method A Cleanup Levels.

PCBs were analyzed for in groundwater samples (SB1-2-1-22-GW, SB3-2-1-22-GW, and SB5-2-1-22-GW). PCBs were not detected above the laboratory practical quantitation limits (PQLs) in any of the three samples.

3.2 July 2022 - Dry Well Removal

From July 12 – 14, 2022, BMEC personnel supervised Clarke Construction personnel during the removal of both dry wells south of the main onsite building and collected 13 confirmation soil samples in the process. Confirmation samples indicated no contaminants above Ecology MTCA Method A Cleanup Levels. On July 14, 2022, after receiving soil sample results, a new drywell was placed in the location of Former Drywell 2 to allow for stormwater drainage from the parking lot, and the excavation was backfilled, compacted to grade, and paved with asphalt.

3.3 September 2022 - Additional Subsurface Investigation

On September 27 and 28, 2022, BMEC hydrogeologist, Brent Bergeron, LHG, and BMEC environmental professional Yancy Meyer, supervised Anderson Environmental Contracting (AEC) personnel during the advancement of six soil borings (MW1 through MW6) to depths of 25 feet bgs via sonic drilling.

TPH-Dx was performed on 12 soil samples. TPH-D was only quantified in one of the 12 soil samples at a concentration of 76 mg/Kg in sample MW3-9-27-22-15'. TPH-O was quantified in three of the 12 soil samples at concentrations of 300 mg/Kg in sample MW3-9-27-22-15' to 1000 mg/Kg in sample MW6-9-27-22-21'. The MTCA Method A Cleanup Level for TPH-D + TPH-O is 2000 mg/Kg which was not exceeded in any of the 12 soil samples. TPH-G was performed on all 12 soil samples. TPH-G was not detected in any of the 12 soil samples. VOCs were analyzed for in all 12 soil samples. Index parameters such as benzene, toluene, ethylbenzene, and total xylenes (BTEX) plus naphthalene were not detected in any of the 12 soil samples. RCRA metals

analyses was performed on all 12 soil samples. Arsenic, cadmium, mercury, selenium, and silver were not detected above the laboratory PQLs in any of the samples. Barium was detected in all 12 samples at concentrations ranging up to 65 mg/Kg in sample MW6-9-27-22-21'. A MTCA Method A Cleanup Level does not currently exist for barium. Chromium (hexavalent + trivalent) was detected in all 12 samples at concentrations ranging up to 16 mg/Kg in soil sample MW1-9-28-22-19'. None of the 12 chromium detections exceed the MTCA Method A Cleanup Level for chromium of 19 mg/Kg. Lead was detected in three of the 12 soil samples at concentrations ranging up to 11 mg/Kg in sample MW6-9-27-22-21'. None of the three lead detections exceed the MTCA Method A Cleanup Level of 250 mg/Kg.

TPH-D and/or TPH-O were not detected above the laboratory PQLs in all six groundwater samples collected from monitoring wells MW1 through MW6. Furthermore, TPH-G was not detected above the laboratory PQLs in the six groundwater samples. VOCs were analyzed for in all six groundwater samples collected from monitoring wells MW1 through MW6. A combination of VOCs including PCE and BTEX were detected in all six groundwater samples but not at concentrations exceeding established MTCA Method A Cleanup Levels.

RCRA (total) metals were analyzed for in all six groundwater samples collected from monitoring wells MW1 through MW6. Mercury was detected in three of the groundwater samples at concentrations ranging from 0.61 µg/L in well MW6 to 1.5 µg/L in well MW4. The MTCA Method A Cleanup Level for mercury is 2 µg/L. Selenium was detected in three of the groundwater samples at concentrations ranging from 5.9 µg/L in well MW6 to 9.9 µg/L in well MW4. No MTCA Method A Cleanup Level currently is established for selenium. Barium was detected in all six of the groundwater samples at concentrations ranging from 340 µg/L in well MW1 to 2700 µg/L in well MW4. No MTCA Method A Cleanup Level currently is established for barium. Cadmium and silver were not detected above the laboratory PQLs in any of the six groundwater samples.

Arsenic was detected in all six groundwater samples at concentrations exceeding the MTCA Method A Cleanup Level of 5 µg/L. Arsenic concentrations ranged from 12 µg/L in the groundwater sample collected from well MW1 to 67 µg/L in MW4. Chromium (hexavalent + trivalent) was detected in all six groundwater samples at concentrations exceeding the MTCA Method A Cleanup Level of 50 µg/L. Chromium concentrations ranged from 81 µg/L in well MW6 to 430 µg/L in MW2. Lead was detected in all six groundwater samples at concentrations exceeding the MTCA Method A Cleanup Level of 15 µg/L. Lead concentrations ranged from 16 µg/L in the groundwater collected from well MW1 to 160 µg/L in well MW2. The highest detections of chromium (hexavalent + trivalent) and lead were in the groundwater sample collected from well MW2 which is located near the northwest property corner between the two former USTs. The second highest chromium and lead detections in groundwater were detected in the sample collected from well MW4 located in the northeast corner of the Site. The two highest arsenic concentrations were detected in wells MW4 and MW2, respectively.

4.0 DECEMBER 15, 2022 GROUNDWATER SAMPLING EVENT FIELD METHODOLOGY

BMEC personnel mobilized to the Site on December 15, 2022, to obtain depth-to-water (DTW) measurements and collect groundwater samples from existing monitoring wells MW1 through MW6. Groundwater parameters of the six monitoring well samples were measured in the field for pH, temperature, conductivity, and turbidity. Approximately five gallons were purged from each of the six monitoring wells, prior to sample collection. All six groundwater samples were collected in the appropriate containers, properly sealed and labeled, and placed on ice in a secured cooler, prior to being relinquished to OnSite for overnight delivery. Groundwater sample field logs for the December 15, 2022 GWSE are included in **Appendix A**.

DTW measurements were collected via a Solinst interface probe from monitoring wells MW1 through MW6. DTW values ranged from 18.35 feet below top of casing (btoc) in well MW2 to 19.87 feet btoc in well MW2 (**Table 1**). Groundwater flow direction was to the southeast as illustrated on **Figure 3**. The hydraulic gradient was 0.006 feet per foot.

The suite of analyses performed on each groundwater sample submitted to the laboratory is as follows: TPH-D and TPH-O analysis via Northwest Method NWTPH-Dx; TPH-G via Northwest Method NWTPH-Gx; VOCs via Environmental Protection Agency (EPA) Method 8260D; and total Resource Conservation and Recovery Act (RCRA) metals via EPA Method 200.8/7470A.

A peristaltic pump and dedicated tubing were used to obtain groundwater samples from the six monitoring wells (MW1 through MW6). Each groundwater sample was obtained via five 40-mL glass vials preserved with HCl, two 500-mL amber glass jars preserved with HCl, two 1-L amber glass jar unpreserved, and one 250-mL plastic container preserved with nitric acid. Upon collection, each groundwater sample was immediately labeled, sealed, and placed on ice in a secure cooler.

All trash derived from the GWSE activities (i.e., nitrile gloves, paper towels, and tubing) was placed in a plastic bag and placed in an onsite trash receptacle. All purge water was stored in 55-gallon drums temporarily staged onsite.

5.0 DECEMBER 15, 2022 GROUNDWATER SAMPLING EVENT RESULTS

On December 15, 2022, BMEC personnel returned to the Site to conduct a GWSE involving all six monitoring wells (MW1 through MW6). TPH-D and/or TPH-O were not detected above the laboratory PQLs in five of the six groundwater samples collected from monitoring wells MW1 and MW3 through MW6. Lube oil (i.e., TPH-O) was detected in the groundwater sample collected from monitoring well at a concentration of 240 mg/L which does not exceed the MTCA Method A Cleanup Level of 500 mg/L. TPH-G was not detected above the laboratory PQLs in the six groundwater samples. TPH results are summarized in **Table 2**.

VOCs were analyzed for in all six groundwater samples. A combination of VOCs including PCE, BTEX, and miscellaneous VOCs (i.e., chloroform, carbon disulfide, n-propylbenzene, p-isopropytoluene, and n-butylbenzene) were detected in all six groundwater samples but at concentrations that do not exceed established MTCA Method A Cleanup Levels. PCE was detected in groundwater samples obtained from all six monitoring wells at concentrations ranging from 1.1 µg/L in well MW6 to 1.7 µg/L in the groundwater samples collected from wells MW1 and MW2. Benzene was detected in groundwater samples collected from monitoring wells MW2 and MW4 at 0.22 µg/L and 0.23 µg/L, respectively. The MTCA Method A Cleanup Levels for PCE and benzene are each 5 µg/L. VOC results are summarized in **Table 3**.

RCRA (total) metals were analyzed for in all six groundwater samples collected from monitoring wells MW1 through MW6. Selenium was detected in two of the groundwater samples at concentrations ranging from 6.7 µg/L in well MW3 to 11 µg/L in well MW6. No MTCA Method A Cleanup Level currently is established for selenium. Barium was detected in all six of the groundwater samples at concentrations ranging from 580 µg/L in well MW1 to 1900 µg/L in wells MW4 and MW6. No MTCA Method A Cleanup Level currently is established for barium. Cadmium and silver were not detected above the laboratory PQLs in any of the six groundwater samples. RCRA metal results are summarized in **Table 4**.

Arsenic was detected in all six groundwater samples at concentrations exceeding the MTCA Method A Cleanup Level of 5 µg/L. Arsenic concentrations ranged from 28 µg/L in the groundwater samples collected from wells MW1 and MW5 to 150 µg/L in MW6. Chromium (hexavalent + trivalent) was detected in all six groundwater samples at concentrations exceeding the MTCA Method A Cleanup Level of 50 µg/L. Chromium concentrations ranged from 150 µg/L in well MW1 to 340 µg/L in MW3. Lead was detected in all six groundwater samples at concentrations exceeding the MTCA Method A Cleanup Level of 15 µg/L. Lead concentrations ranged from 26 µg/L in the groundwater collected from well MW1 to 140 µg/L in well MW6. Mercury was detected in three of the groundwater samples at concentrations ranging from 0.58 µg/L in well MW2 to 2.1 µg/L in well MW6. The MTCA Method A Cleanup Level for mercury is 2 µg/L. **Figure 4** illustrates the laboratory analytical results the five RCRA metals monitored by Ecology.

Each of the six groundwater samples submitted to Onsite for RCRA metals were not field filtered. Instead, each of the six samples were filtered in the lab, prior to analysis.

6.0 CONCLUSIONS

On December 15, 2022,.DTW measurements ranged from 18.35 feet btoc in well MW2 to 19.87 feet btoc in well MW2. Groundwater flow direction was to the southeast. The hydraulic gradient was 0.006 feet per foot.

TPH-D and/or TPH-O were not detected above the laboratory PQLs in five of the six groundwater samples collected from monitoring wells MW1 and MW3 through MW6. TPH-O was detected in the groundwater sample collected from monitoring well at a concentration of 240 mg/L which does not exceed the MTCA Method A Cleanup Level of 500 mg/L. TPH-G was not detected above the laboratory PQLs in the six groundwater samples. No VOCs were detected at concentrations that exceed MTCA Method A Cleanup Levels, including PCE and benzene. PCE was detected in all six groundwater samples but at concentrations not exceeding MTCA Method A Cleanup Levels.

Arsenic was detected in all six groundwater samples at concentrations exceeding the MTCA Method A Cleanup Level of 5 µg/L. Arsenic concentrations ranged from 28 µg/L in the groundwater samples collected from wells MW1 and MW5 to 150 µg/L in MW6. Chromium (hexavalent + trivalent) was detected in all six groundwater samples at concentrations exceeding the MTCA Method A Cleanup Level of 50 µg/L. Chromium concentrations ranged from 150 µg/L in well MW1 to 340 µg/L in MW3. Lead was detected in all six groundwater samples at concentrations exceeding the MTCA Method A Cleanup Level of 15 µg/L. Lead concentrations ranged from 26 µg/L in the groundwater collected from well MW1 to 140 µg/L in well MW6. Mercury was detected in three of the groundwater samples at concentrations ranging from 0.58 µg/L in well MW2 to 2.1 µg/L in well MW6. The MTCA Method A Cleanup Level for mercury is 2 µg/L.

7.0 RECOMMENDATIONS

BMEC recommends the following actions:

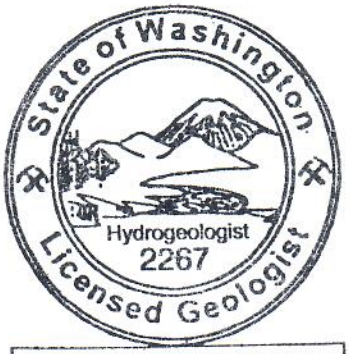
1) Conduct a minimum of four additional quarterly GWSEs and submit the groundwater samples to the laboratory for RCRA metals analysis, TPH-Dx and TPH-Gx analysis, as well as VOCs including PCE analysis.
2) Assess whether background metals concentrations in the shallow aquifer may be naturally elevated above MTCA Method A Cleanup Levels. If so, this phenomenon shall be factored into the assessment of metals in groundwater and the pursuit of NFA status.
3) Complete reports documenting all future field activities. BMEC plans to compare all future soil and groundwater sampling results to MTCA Method A Cleanup Levels.

8.0 STATEMENT OF ENVIRONMENTAL PROFESSIONALS

BMEC personnel performed these GWSE field activities on December 15, 2022, in accordance with generally accepted environmental practices and procedures. We employed the degree of care and skill ordinarily exercised under similar circumstances by reputable environmental professionals practicing in the discipline of environmental sciences. The groundwater sampling activities completed were conducted in accordance with standard engineering and geologic standards. However, BMEC was limited by data gaps that were encountered due to previous field work inadequacies and improper documentation. This report is based on the limited data that was provided to BMEC and if additional field data or documentation exists that was not made available to BMEC, we cannot be held accountable for such data gaps or inconsistencies recognizable in this report.

Respectfully Submitted,

Blue Mountain Environmental and Consulting Company, Inc.



Brent N. Bergeron

Expires 1/3/24

Brent N. Bergeron, LHG, LG

P Trabusiner

Peter Trabusiner, Engineer

9.0 REFERENCES

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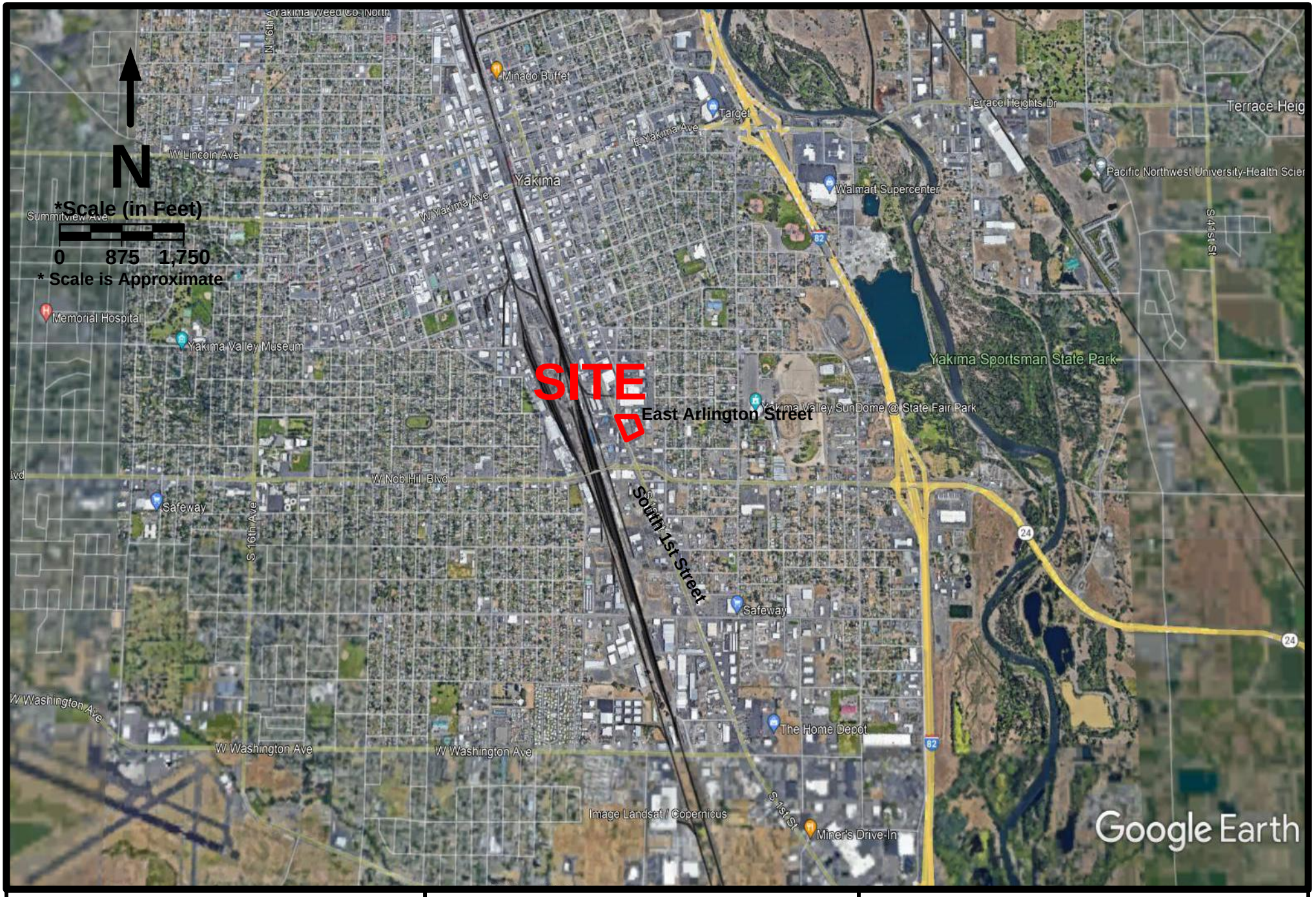
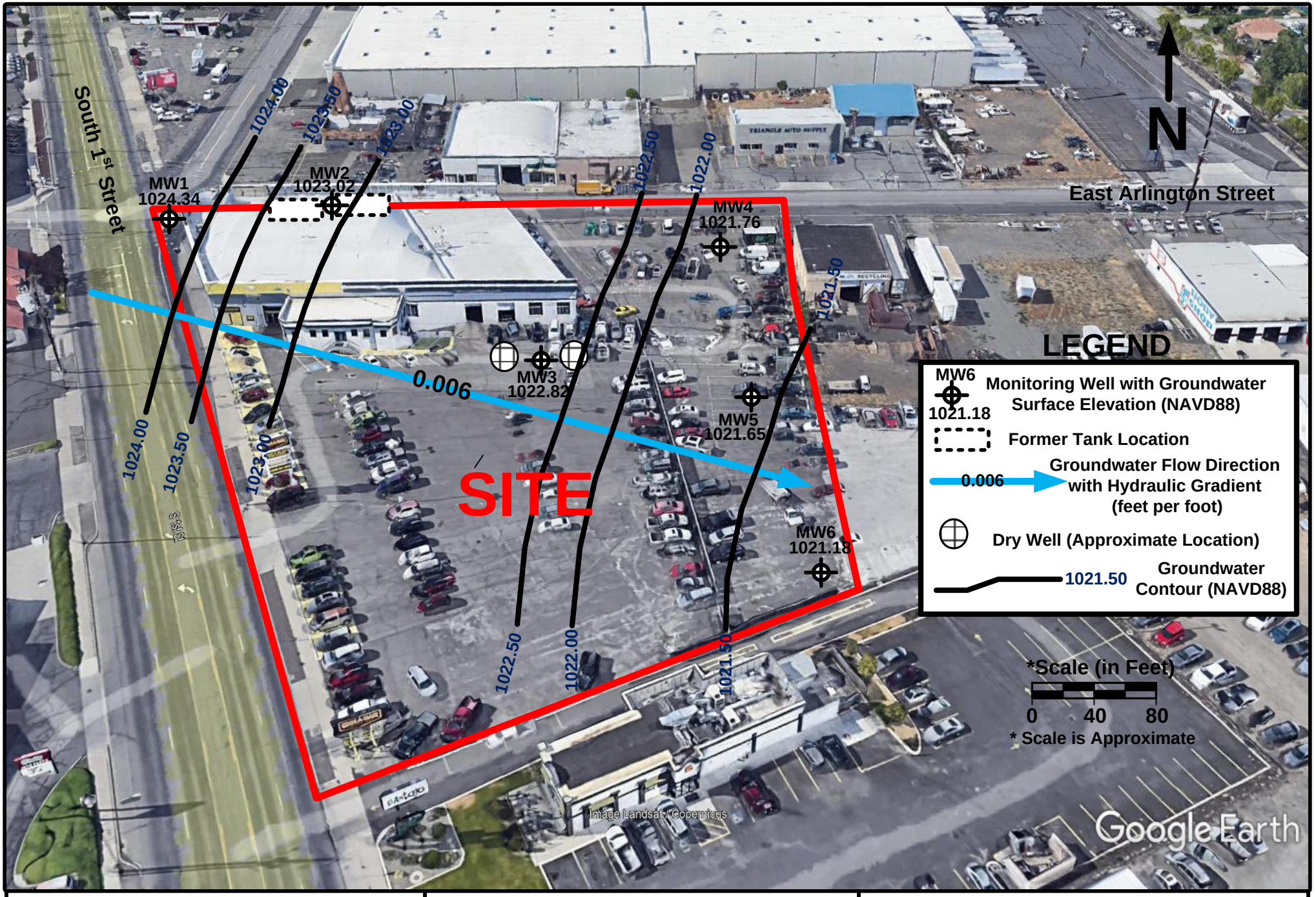
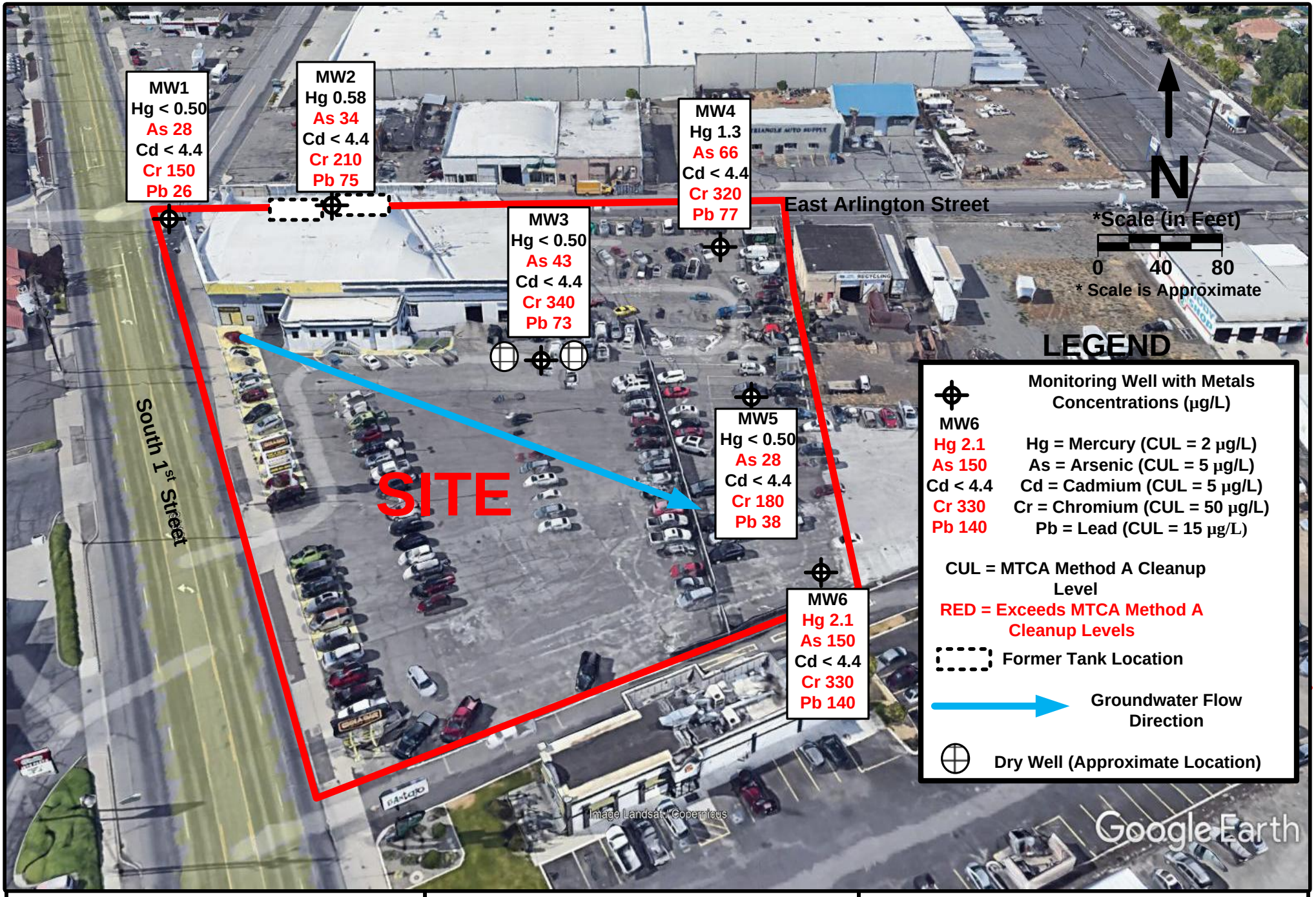


BMEC **P.O. Box 545/125 Main Street** **Waitsburg, Washington 99361**	**FIGURE 1 – SITE VICINITY MAP**	**Hahn Motors Company** **1201 South 1st Street** **Yakima, Washington 98901**

BMEC **P.O. Box 545/125 Main Street** **Waitsburg, Washington 99361**	**FIGURE 2 – SITE LOCATION MAP**	**Hahn Motors Company** **1201 South 1st Street** **Yakima, Washington 98901**



BMEC **P.O. Box 545/125 Main Street** **Waitsburg, Washington 99361**	**FIGURE 3 – GROUNDWATER FLOW DIRECTION** **DECEMBER 15, 2022**	**Hahn Motors Company** **1201 South 1st Street** **Yakima, Washington 98901** **VCP Project # CE 0529**



BMEC **P.O. Box 545/125 Main Street** **Waitsburg, Washington 99361**	**FIGURE 4 – METALS IN GROUNDWATER 12/15/22 (µg/L)**	**Hahn Motors Company** **1201 South 1st Street** **Yakima, Washington 98901** **VCP Project # CE 0529**

TABLE 1
Monitoring Well Installation and Groundwater Surface Elevation Data
Former Hahn Motors
1201 S. 1st Street in Yakima, WA 98901

Monitoring Well Number	Date Measured	Top of Casing Elevation (feet NAVD88)	Depth-To-Water Below Top of Casing (feet btoc)*	Groundwater Elevation (feet NAVD88)	LNAPL Thickness (feet)	Volume of Groundwater Purged (gallons)	Screened Interval (feet bgs)	Sandpack Interval (feet bgs)	Bentonite Interval (feet bgs)
Monitoring Wells									
MW1	10/3/22	1042.69	15.48	1027.21	0.00	15	10 - 25'	8 - 25'	2 - 8'
	12/15/22		18.35	1024.34	0.00	5			
MW2	10/3/22	1042.89	16.66	1026.23	0.00	15	10 - 25'	8 - 25'	2 - 8'
	12/15/22		19.87	1023.02	0.00	5			
MW3	10/3/22	1041.88	16.36	1025.52	0.00	15	10 - 25'	8 - 25'	2 - 8'
	12/15/22		19.06	1022.82	0.00	5			
MW4	10/3/22	1041.13	16.14	1024.99	0.00	15	10 - 25'	8 - 25'	2 - 8'
	12/15/22		19.37	1021.76	0.00	5			
MW5	10/3/22	1040.73	15.94	1024.79	0.00	15	10 - 25'	8 - 25'	2 - 8'
	12/15/22		19.08	1021.65	0.00	5			
MW6	10/3/22	1040.06	15.57	1024.49	0.00	15	10 - 25'	8 - 25'	2 - 8'
	12/15/22		18.88	1021.18	0.00	5			

Notes:

NAVD88 = North American Vertical Datum 1988

btoc = below top of casing

LNAPL = light, non-aqueous phase liquid

NA = not available

TABLE 2

Groundwater Sample Results - Total Petroleum Hydrocarbons (µg/L)

1201 South First Street

Yakima, Washington 98901

Sample I.D.	Date Collected	TPH-Diesel and Heavy Oil by Northwest Method NWTPH-Dx		TPH-Gasoline by Northwest Method NWTPH-Gx
		TPH-D	TPH-O	
MONITORING WELLS				
MW1	10/3/22	< 200	< 200	< 100
	12/15/22	< 210	< 210	< 500
MW2	10/3/22	< 210	< 210	< 100
	12/15/22	< 220	**240**	< 500
MW3	10/3/22	< 200	< 200	< 100
	12/15/22	< 230	< 230	< 500
MW4	10/3/22	< 210	< 210	< 100
	12/15/22	< 230	< 230	< 500
MW5	103/22	< 210	< 210	< 100
	12/15/22	< 220	< 220	< 500
MW6	10/3/22	< 210	< 210	< 100
	12/15/22	< 220	< 220	< 500
Ecology MTCA Method A Groundwater Cleanup Levels (µg/L)				
Cleanup Level		500	500	800/1,000 [1]

Notes:

[1] MTCA Method A Cleanup Level for TPH-G is 800 ppb if benzene is detected in subsurface soils or groundwater. If benzene is not detected, Cleanup Level is 1,000 ppb.

MTCA = Model Toxics Control Act

µg/L = micrograms per Liter or parts per billion (ppb)

BOLD = sample yielded detectable concentration of analyzed compound.

BOLD Concentration exceeds the MTCA Method A Cleanup Level.

TABLE 3

Groundwater Sample Results - Volatile Organic Compounds (µg/L)

Hahn Motors Company - 1201 South 1st Street

Yakima, Washington 98901

Sample I.D.	Date Collected	Volatile Organic Compounds (VOCs) by EPA Method 8260D (µg/L)																		
		Benzene	Toluene	Ethylbenzene	Total Xylenes	EDB	EDC	2-Hexanone	n-Propyl-benzene	MTBE	Naphthalene	124-TMB	135-TMB	P-Isopropyltoluene	n-Butylbenzene	Acetone	Cabon Disulfide	2-Butanone	Chloroform	PCE
MONITORING WELLS																				
MW1	10/3/22	< 0.20	< 1.0	< 0.20	< 0.60	< 0.010	< 0.20	< 2.0	< 0.20	< 0.20	< 1.3	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 0.20	< 5.0	**6.1**	**2.4**
	12/15/22	< 0.20	< 1.0	< 0.20	< 0.60	< 0.010	< 0.20	< 2.0	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 0.26	< 5.0	< 1.0	**1.7**
MW2	10/3/22	**0.62**	< 1.0	**0.44**	**0.45**	< 0.010	< 0.20	< 2.0	**0.30**	< 0.20	< 1.3	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 0.20	< 5.0	**5.0**	**2.6**
	12/15/22	**0.22**	< 1.0	< 0.20	< 0.60	< 0.010	< 0.20	< 2.0	**< 0.20**	< 0.20	< 1.0	< 0.20	< 0.20	**0.31**	**0.21**	< 5.0	**0.33**	< 5.0	< 1.0	**1.7**
MW3	10/3/22	< 0.20	< 1.0	< 0.20	< 0.60	< 0.010	< 0.20	< 2.0	< 0.20	< 0.20	< 1.3	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 0.20	< 5.0	**4.8**	**2.2**
	12/15/22	< 0.20	< 1.0	< 0.20	< 0.60	< 0.010	< 0.20	< 2.0	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 0.26	< 5.0	**2.7**	**1.4**
MW4	10/3/22	**0.67**	< 1.0	**0.22**	**0.26**	< 0.010	< 0.20	< 2.0	< 0.20	< 0.20	< 1.3	< 0.20	< 0.20	< 0.20	< 0.20	**5.2**	**0.23**	< 5.0	**3.6**	**1.1**
	12/15/22	**0.23**	< 1.0	< 0.20	< 0.60	< 0.010	< 0.20	< 2.0	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	**0.36**	< 5.0	**2.5**	**1.1**
MW5	10/3/22	**1.7**	**2.2**	**0.68**	**1.45**	< 0.010	< 0.20	**2.3**	**0.34**	< 0.20	< 1.3	**0.25**	< 0.20	**0.30**	**0.25**	**11**	< 0.20	< 5.0	**5.6**	**1.6**
	12/15/22	< 0.20	**< 1.0**	< 0.20	< 0.60	< 0.010	< 0.20	< 2.0	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	**0.34**	< 5.0	**2.6**	**1.6**
MW6	10/3/22	**0.65**	**1.0**	**0.26**	**0.24**	< 0.010	< 0.20	< 2.0	< 0.20	< 0.20	< 1.3	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 0.20	< 5.0	**4.5**	**1.5**
	12/15/22	< 0.20	< 1.0	< 0.20	< 1.0	< 0.010	< 0.20	< 2.0	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 0.26	< 5.0	**2.9**	**1.3**
Ecology MTCA Method A Groundwater Cleanup Levels (µg/L)																				
Cleanup Level		5	1,000	700	1,000	0.010	5	DNE	DNE	20	160	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	5

Notes:

MTCA = Model Toxics Control Act

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

MTBE = Methyl tertiery-butyl ether

124-TMB = 1,2,4-trimethylbenzene

135-TMB = 1,3,5-trimethylbenzene

PCE = Tetrachloroethylene

DNE = Does Not Exist

µg/L = micrograms per Liter or parts per billion (ppb)

BOLD = sample yielded detectable concentration of analyzed compound.

TABLE 4

Groundwater Sample Results - Total Metals (µg/L)

1201 South First Street

Yakima, Washington 98901

Sample I.D.	Date Collected	Total Mercury by EPA Method 200.8 (µg/L)	Total Metals via EPA Method 200.8						
			Arsenic	Barium	Cadmium	Chromium[1]	Lead	Selenium	Silver
Monitoring Wells									
MW1	10/3/22	< 0.50	**12**	**340**	< 4.4	**110**	**16**	< 5.6	< 11
	12/15/22	< 0.50	**28**	**580**	< 4.4	**150**	**26**	< 5.6	< 11
MW2	10/3/22	**1.2**	**58**	**2400**	< 4.4	**430**	**160**	**7.6**	< 11
	12/15/22	**0.58**	**34**	**1300**	< 4.4	**210**	**75**	< 5.6	< 11
MW3	10/3/22	< 0.50	**16**	**550**	< 4.4	**120**	**27**	< 5.6	< 11
	12/15/22	< 0.50	**43**	**1100**	< 4.4	**340**	**73**	**6.7**	< 11
MW4	10/3/22	**1.5**	**67**	**2700**	< 4.4	**400**	**110**	**9.9**	< 11
	12/15/22	**1.3**	**66**	**1900**	< 4.4	**320**	**77**	**7.1**	< 11
MW5	10/3/22	< 0.50	**18**	**790**	< 4.4	**210**	**36**	< 5.6	< 11
	12/15/22	< 0.50	**28**	**690**	< 4.4	**180**	**38**	< 5.6	< 11
MW6	10/3/22	**0.61**	**39**	**600**	< 4.4	**81**	**39**	**5.9**	< 11
	12/15/22	**2.1**	**150**	**1900**	< 4.4	**330**	**140**	**11**	< 11
Ecology MTCA Method A Groundwater Cleanup Levels (µg/L)									
Cleanup Levels		2	5	DNE	5	50	15	DNE	DNE

Notes:

[1] MTCA Method A Cleanup Level for total chromium (chromium VI + chromium III) is 50 µg/L

MTCA = Model Toxics Control Act

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

MTBE = Mehtyl tertiery-butyl ether

124-TMB = 1,2,4-trimethylbenzene

135-TMB = 1,3,5-trimethylbenzene

DNE = Does Not Exist

µg/L = micrograms per Liter or parts per billion (ppb)

BOLD = sample yielded detectable concentration of analyzed compound

BOLD Concentration exceeds the MTCA Method A Cleanup Level

APPENDIX A

GROUNDWATER SAMPLE FIELD LOGS

GROUNDWATER SAMPLE FIELD LOG

DAY/DATE: 12-15-22	SHEET 1 of
PROJECT NAME: 1	PROJECT NO.: E2072/1204
PROJECT LOCATION: 1201 S 1ST YAKIMA	

Weather: ☒Fair ☐Overcast ☐Fog ☐Rain ☐Snow	Wind: ☒Calm ☐Light ☐Moderate ☐Strong
Temp.: ☐<0 ☒0-32 ☐33-54 ☐55-79 ☐>80	Wind from: ☐N ☐NE ☐E ☐SE ☐S ☒SW ☐W ☐NW
Humidity %: ☐<25 ☒26-49 ☐50-74 ☐>75	Precip.: ☒None ☐Mist ☐Light ☐Moderate ☐Heavy

WELL NO. (or Boring, Location): MW01	SAMPLE NUMBER: MW1-12/15/22-GW
Well depth: / Screen length:	Laboratory:
Well install date:	COC and/or RFA Number:
Pre-purge SWL: 18.35	Casing diameter:
Time Sample Collected: 0830	SWL at sample time: 18.38
Sample Turbidity: 235.8	Sample Conductance: 402.4
Sample Color: TAN	Sample pH: 7.49
Sample Temperature: 15.8	Sample Odor: —

Field Data

Time (24 HR)	Temp	Cond	pH	Pump Rate or Bail No.	Turbidity	Other
	14.5	411.0	7.82	1 gal	302.9	
	15.3	407.7	7.27	2	276.7	
	16.2	405.1	7.50	3	194.0	
	15.8	402.4	7.49	5	235.8	

Sample Collection Method:

The monitor well was purged:

☒ of stagnant water in the casing and filter by slowly setting a pump or intake tubing within the approximate middle of the screened interval or slightly above the middle until the until the temperature, conductivity and pH stabilized. OR,

☐ of stagnant water in the casing and filter by slowly setting a pump or intake tubing at approximately _____ feet above the bottom of the casing until the temperature, conductivity and pH stabilized. OR,

☐ by hand bailing until temperature, conductivity and pH stabilized.

Samples were collected:

☒ by setting a pump, or tubing attached to a pump, within the approximate middle of the screened interval until the temperature, conductivity and pH stabilized.

☐ by setting a pump, or tubing attached to a pump, at approximately _____ feet above the bottom of the casing until the temperature, conductivity and pH stabilized.

☐ with disposable bailers until the temperature, conductivity and pH stabilized.

Sample Shipment:

Water samples were placed in appropriate containers suitable for analyses requested. As necessary, the containers were prepared by the lab. The containers were filled to prevent air-entrapment, sealed, labeled, and placed in an ice chest at approximately 4°C (e.g. blu-ice) for transport to the laboratory.

Analysis Requested: (per laboratory protocols)

☐ NWTPH-HCID; ☐ NWTPH-Gx; ☐ NWTPH-Dx; ☐ NWTPH-Gx/BTEX; ☐ VOC; ☐ HVOC;

☐ SemiVOC; ☐ PAH; ☐ PCB; ☐ Pesticides; (☐8, ☐10, ☐13) Metals; ☐ TCLP; ☐ MTBE;

☐ OTHER:

SIGNATURE: _____

PRINT NAME: NANCY MEYER

Notes: 2-inch, Schedule 40 PVC casing = 0.163 gallons per foot; 6" Hole = 1.469 gallons per foot

GROUNDWATER SAMPLE FIELD LOG

DAY/DATE: 12-15-22		SHEET 1 of	
PROJECT NAME: 1201 S. 1ST ST. YAKIMA		PROJECT NO.: E2022/204	
PROJECT LOCATION:			
Weather: ☐Fair ☒Overcast ☐Fog ☐Rain ☐Snow Temp.: ☐<0 ☒0-32 ☐33-54 ☐55-79 ☐>80 Humidity %: ☐<25 ☐26-49 ☒50-74 ☐>75		Wind: ☒Calm ☐Light ☐Moderate ☐Strong Wind from: ☐N ☐NE ☐E ☐SE ☐S ☒SW ☐W ☐NW Precip.: ☒None ☐Mist ☐Light ☐Moderate ☐Heavy	

WELL NO. (or Boring, Location): MW2		SAMPLE NUMBER: MW2-12/15/22-GW	
Well depth:	Screen length:	Laboratory:	
Well install date:		COC and/or RFA Number:	
Pre-purge SWL: 19.57		Casing diameter:	
Time Sample Collected: 0915		SWL at sample time: 19.91	
Sample Turbidity: —		Sample Conductance: 472.0	
Sample Color: BROWN		Sample pH: 7.48	
Sample Temperature: 16.2		Sample Odor: —	

Field Data

Time (24 HR)	Temp	Cond	pH	Pump Rate or Bail No.	Turbidity	Other
	15.5	539.1	7.19	1 gal	82.08	
	16.0	538.2	7.07	2	>1000	
	16.2	469.0	7.51	3	>1000	
	16.2	472.0	7.48	5	>1000	

Sample Collection Method:

The monitor well was purged:

☒ of stagnant water in the casing and filter by slowly setting a pump or intake tubing within the approximate middle of the screened interval or slightly above the middle until the until the temperature, conductivity and pH stabilized. OR,

☐ of stagnant water in the casing and filter by slowly setting a pump or intake tubing at approximately _____ feet above the bottom of the casing until the temperature, conductivity and pH stabilized. OR,

☐ by hand bailing until temperature, conductivity and pH stabilized.

Samples were collected:

☒ by setting a pump, or tubing attached to a pump, within the approximate middle of the screened interval until the temperature, conductivity and pH stabilized.

☐ by setting a pump, or tubing attached to a pump, at approximately _____ feet above the bottom of the casing until the temperature, conductivity and pH stabilized.

☐ with disposable bailers until the temperature, conductivity and pH stabilized.

Sample Shipment:

Water samples were placed in appropriate containers suitable for analyses requested. As necessary, the containers were prepared by the lab. The containers were filled to prevent air-entrapment, sealed, labeled, and placed in an ice chest at approximately 4°C (e.g. blu-ice) for transport to the laboratory.

Analysis Requested: (per laboratory protocols)

☐ NWTPH-HCID; ☐ NWTPH-Gx; ☐ NWTPH-Dx; ☐ NWTPH-Gx/BTEX; ☐ VOC; ☐ HVOC;

☐ SemiVOC; ☐ PAH; ☐ PCB; ☐ Pesticides; (☐8, ☐10, ☐13) Metals; ☐ TCLP; ☐ MTBE;

☐ OTHER:

SIGNATURE: _____

PRINT NAME: NANCY MEYER

Notes: 2-inch, Schedule 40 PVC casing = 0.163 gallons per foot; 6" Hole = 1.469 gallons per foot

GROUNDWATER SAMPLE FIELD LOG

DAY/DATE: 12-15-22		SHEET 1 of	
PROJECT NAME: 1201 S 1st St. YAKIMA		PROJECT NO.: E2022/1204	
PROJECT LOCATION:			
Weather: ☐Fair ☒Overcast ☐Fog ☐Rain ☐Snow Temp.: ☐<0 ☒0-32 ☐33-54 ☐55-79 ☐>80 Humidity %: ☐<25 ☐26-49 ☒50-74 ☐>75		Wind: ☒Calm ☐Light ☐Moderate ☐Strong Wind from: ☐N ☐NE ☐E ☐SE ☐S ☒SW ☐W ☐NW Precip.: ☒None ☐Mist ☐Light ☐Moderate ☐Heavy	

WELL NO. (or Boring, Location): MW3		**SAMPLE NUMBER:** MW3-12/15/22-GW	
Well depth:	Screen length:	Laboratory:	
Well install date:		COC and/or RFA Number:	
Pre-purge SWL: 19.06		Casing diameter:	
Time Sample Collected: 0945		SWL at sample time: 19.06	
Sample Turbidity: 323.2		Sample Conductance: 415.5	
Sample Color: Brown		Sample pH: 7.18	
Sample Temperature: 16.0		Sample Odor: —	

Field Data

Time (24 HR)	Temp	Cond	pH	Pump Rate or Bail No.	Turbidity	Other
	15.4	402.1	6.71	1 gal	150.8	
	16.5	413.7	6.79	2	>1000	
	16.8	410.3	7.01	3	>1000	
	16.0	415.5	7.18	5	323.2	

Sample Collection Method:

The monitor well was purged:

☒ of stagnant water in the casing and filter by slowly setting a pump or intake tubing within the approximate middle of the screened interval or slightly above the middle until the until the temperature, conductivity and pH stabilized. OR,

☐ of stagnant water in the casing and filter by slowly setting a pump or intake tubing at approximately _____ feet above the bottom of the casing until the temperature, conductivity and pH stabilized. OR,

☐ by hand bailing until temperature, conductivity and pH stabilized.

Samples were collected:

☒ by setting a pump, or tubing attached to a pump, within the approximate middle of the screened interval until the temperature, conductivity and pH stabilized.

☐ by setting a pump, or tubing attached to a pump, at approximately _____ feet above the bottom of the casing until the temperature, conductivity and pH stabilized.

☐ with disposable bailers until the temperature, conductivity and pH stabilized.

Sample Shipment:

Water samples were placed in appropriate containers suitable for analyses requested. As necessary, the containers were prepared by the lab. The containers were filled to prevent air-entrapment, sealed, labeled, and placed in an ice chest at approximately 4°C (e.g. blu-ice) for transport to the laboratory.

Analysis Requested: (per laboratory protocols)

☐ NWTPH-HCID; ☐ NWTPH-Gx; ☐ NWTPH-Dx; ☐ NWTPH-Gx/BTEX; ☐ VOC; ☐ HVOC;

☐ SemiVOC; ☐ PAH; ☐ PCB; ☐ Pesticides; (☐8, ☐10, ☐13) Metals; ☐ TCLP; ☐ MTBE;

☐ OTHER:

SIGNATURE: _____

PRINT NAME: Vinci Meyer

Notes: 2-inch, Schedule 40 PVC casing = 0.163 gallons per foot; 6" Hole = 1.469 gallons per foot

GROUNDWATER SAMPLE FIELD LOG

DAY/DATE: 12-15-22	SHEET 1 of
PROJECT NAME: 1201 S. 1st St. Yakima	PROJECT NO.: E2022/1204
PROJECT LOCATION:	

Weather: ☐Fair ☒Overcast ☐Fog ☐Rain ☐Snow
Temp.: ☐<0 ☒0-32 ☐33-54 ☐55-79 ☐>80
Humidity %: ☐<25 ☐26-49 ☒50-74 ☐>75

Wind: ☒Calm ☐Light ☐Moderate ☐Strong
Wind from: ☐N ☐NE ☐E ☐SE ☐S ☒SW ☐W ☐NW
Precip.: ☒None ☐Mist ☐Light ☐Moderate ☐Heavy

WELL NO. (or Boring, Location): MW4	SAMPLE NUMBER: MW4-12/15/22-GW
Well depth: / Screen length:	Laboratory:
Well install date:	COC and/or RFA Number:
Pre-purge SWL: 19.37	Casing diameter:
Time Sample Collected: 1030	SWL at sample time: 19.39
Sample Turbidity: —	Sample Conductance: 388.2
Sample Color: Brn	Sample pH: 6.95
Sample Temperature: 15.1	Sample Odor: —

Field Data

Time (24 HR)	Temp	Cond	pH	Pump Rate or Bail No.	Turbidity	Other
	16.0	379.6	6.46	1 gal	157.0	
	16.9	388.3	6.85	2	>1000	
	17.1	387.5	6.61	3	>1000	
	15.1	388.2	6.95	5	>1000	

Sample Collection Method:

The monitor well was purged:

☑ of stagnant water in the casing and filter by slowly setting a pump or intake tubing within the approximate middle of the screened interval or slightly above the middle until the until the temperature, conductivity and pH stabilized. OR,

☐ of stagnant water in the casing and filter by slowly setting a pump or intake tubing at approximately _____ feet above the bottom of the casing until the temperature, conductivity and pH stabilized. OR,

☐ by hand bailing until temperature, conductivity and pH stabilized.

Samples were collected:

☑ by setting a pump, or tubing attached to a pump, within the approximate middle of the screened interval until the temperature, conductivity and pH stabilized.

☐ by setting a pump, or tubing attached to a pump, at approximately _____ feet above the bottom of the casing until the temperature, conductivity and pH stabilized.

☐ with disposable bailers until the temperature, conductivity and pH stabilized.

Sample Shipment:

Water samples were placed in appropriate containers suitable for analyses requested. As necessary, the containers were prepared by the lab. The containers were filled to prevent air-entrapment, sealed, labeled, and placed in an ice chest at approximately 4°C (e.g. blu-ice) for transport to the laboratory.

Analysis Requested: (per laboratory protocols)

☐ NWTPH-HCID; ☐ NWTPH-Gx; ☐ NWTPH-Dx; ☐ NWTPH-Gx/BTEX; ☐ VOC; ☐ HVOC;

☐ SemiVOC; ☐ PAH; ☐ PCB; ☐ Pesticides; (☐8, ☐10, ☐13) Metals; ☐ TCLP; ☐ MTBE;

☐ OTHER:

SIGNATURE: _____

PRINT NAME: Yanky Meyer

Notes: 2-inch, Schedule 40 PVC casing = 0.163 gallons per foot; 6" Hole = 1.469 gallons per foot

GROUNDWATER SAMPLE FIELD LOG

DAY/DATE: 12-15-22	SHEET 1 of
PROJECT NAME: 1201 S. 1st St Yakima	PROJECT NO.: E2022/1201
PROJECT LOCATION:	

Weather: ☐Fair ☑Overcast ☐Fog ☐Rain ☐Snow Temp.: ☐<0 ☑0-32 ☐33-54 ☐55-79 ☐>80 Humidity %: ☐<25 ☐26-49 ☑50-74 ☐>75	Wind: ☑Calm ☐Light ☐Moderate ☐Strong Wind from: ☐N ☐NE ☐E ☐SE ☐S ☑SW ☐W ☐NW Precip.: ☑None ☐Mist ☐Light ☐Moderate ☐Heavy

WELL NO. (or Boring, Location): MW-5	**SAMPLE NUMBER:** MW5-12/15/22-GW
Well depth: / Screen length:	Laboratory:
Well install date:	COC and/or RFA Number:
Pre-purge SWL: 19.08	Casing diameter:
Time Sample Collected: 1120	SWL at sample time: 19.16
Sample Turbidity: —	Sample Conductance: 425.0
Sample Color: Brown	Sample pH: 7.25
Sample Temperature: 17.1	Sample Odor: —

Field Data

Time (24 HR)	Temp	Cond	pH	Pump Rate or Bail No.	Turbidity	Other
	17.0	434.0	7.25	1 gal	>1000	
	17.0	419.5	7.21	2	↓	
	17.1	422.3	7.25	3		
	17.1	425.0	7.25	5		

Sample Collection Method:

The monitor well was purged:

☑ of stagnant water in the casing and filter by slowly setting a pump or intake tubing within the approximate middle of the screened interval or slightly above the middle until the until the temperature, conductivity and pH stabilized. OR,

☐ of stagnant water in the casing and filter by slowly setting a pump or intake tubing at approximately _____ feet above the bottom of the casing until the temperature, conductivity and pH stabilized. OR,

☐ by hand bailing until temperature, conductivity and pH stabilized.

Samples were collected:

☑ by setting a pump, or tubing attached to a pump, within the approximate middle of the screened interval until the temperature, conductivity and pH stabilized.

☐ by setting a pump, or tubing attached to a pump, at approximately _____ feet above the bottom of the casing until the temperature, conductivity and pH stabilized.

☐ with disposable bailers until the temperature, conductivity and pH stabilized.

Sample Shipment:

Water samples were placed in appropriate containers suitable for analyses requested. As necessary, the containers were prepared by the lab. The containers were filled to prevent air-entrapment, sealed, labeled, and placed in an ice chest at approximately 4°C (e.g. blu-ice) for transport to the laboratory.

Analysis Requested: (per laboratory protocols)

☐ NWTPH-HCID; ☐ NWTPH-Gx; ☐ NWTPH-Dx; ☐ NWTPH-Gx/BTEX; ☐ VOC; ☐ HVOC;

☐ SemiVOC; ☐ PAH; ☐ PCB; ☐ Pesticides; (☐8, ☐10, ☐13) Metals; ☐ TCLP; ☐ MTBE;

☐ OTHER:

SIGNATURE: _____

PRINT NAME: Nancy Meyer

Notes: 2-inch, Schedule 40 PVC casing = 0.163 gallons per foot; 6" Hole = 1.469 gallons per foot

GROUNDWATER SAMPLE FIELD LOG

DAY/DATE: 12-15-22		SHEET 1 of	
PROJECT NAME: 1201 S. 1ST ST YAKIMA		PROJECT NO.: E2022/1704	
PROJECT LOCATION:			
Weather: ☐Fair ☒Overcast ☐Fog ☐Rain ☐Snow Temp.: ☐<0 ☒0-32 ☐33-54 ☐55-79 ☐>80 Humidity %: ☐<25 ☐26-49 ☒50-74 ☐>75		Wind: ☒Calm ☐Light ☐Moderate ☐Strong Wind from: ☐N ☐NE ☐E ☐SE ☐S ☒SW ☐W ☐NW Precip.: ☒None ☐Mist ☐Light ☐Moderate ☐Heavy	

WELL NO. (or Boring, Location): MW-6		**SAMPLE NUMBER:** MW6-12/15/22-GW	
Well depth:	Screen length:	Laboratory:	
Well install date:		COC and/or RFA Number:	
Pre-purge SWL: 18.88		Casing diameter:	
Time Sample Collected: 12:15		SWL at sample time: 18.88	
Sample Turbidity: —		Sample Conductance: 398.2	
Sample Color: BROWN		Sample pH: 7.03	
Sample Temperature: 16.7		Sample Odor: —	

Field Data

Time (24 HR)	Temp	Cond	pH	Pump Rate or Bail No.	Turbidity	Other
	16.3	377.3	6.80	1 GAL	471.4	
	16.8	387.6	7.06	2	>1000	
	17.0	387.1	6.87	3	|	
	16.7	398.2	7.03	5	V	

Sample Collection Method:

The monitor well was purged:

☑ of stagnant water in the casing and filter by slowly setting a pump or intake tubing within the approximate middle of the screened interval or slightly above the middle until the until the temperature, conductivity and pH stabilized. OR,

☐ of stagnant water in the casing and filter by slowly setting a pump or intake tubing at approximately _____ feet above the bottom of the casing until the temperature, conductivity and pH stabilized. OR,

☐ by hand bailing until temperature, conductivity and pH stabilized.

Samples were collected:

☑ by setting a pump, or tubing attached to a pump, within the approximate middle of the screened interval until the temperature, conductivity and pH stabilized.

☐ by setting a pump, or tubing attached to a pump, at approximately _____ feet above the bottom of the casing until the temperature, conductivity and pH stabilized.

☐ with disposable bailers until the temperature, conductivity and pH stabilized.

Sample Shipment:

Water samples were placed in appropriate containers suitable for analyses requested. As necessary, the containers were prepared by the lab. The containers were filled to prevent air-entrapment, sealed, labeled, and placed in an ice chest at approximately 4°C (e.g. blu-ice) for transport to the laboratory.

Analysis Requested: (per laboratory protocols)

☐ NWTPH-HCID; ☐ NWTPH-Gx; ☐ NWTPH-Dx; ☐ NWTPH-Gx/BTEX; ☐ VOC; ☐ HVOC;

☐ SemiVOC; ☐ PAH; ☐ PCB; ☐ Pesticides; (☐8, ☐10, ☐13) Metals; ☐ TCLP; ☐ MTBE;

☐ OTHER:

SIGNATURE: _____

PRINT NAME: NANCY MEYER

Notes: 2-inch, Schedule 40 PVC casing = 0.163 gallons per foot; 6" Hole = 1.469 gallons per foot

APPENDIX B

LABORATORY ANALYTICAL DOCUMENTATION

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 27, 2022

Peter Trabusiner
Blue Mountain Environmental, Inc.
1500 Adair Drive
Richland, WA 99352

Re: Analytical Data for Project E2022-1204; 1201 S. 1st St Yakima
Laboratory Reference No. 2212-215

Dear Peter:

Enclosed are the analytical results and associated quality control data for samples submitted on December 21, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

Case Narrative

Samples were collected on December 15, 2022 and received by the laboratory on December 21, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW1-12/15/22-GW**					
Laboratory ID:	12-215-01					
Gasoline	**ND**	500	NWTPH-Gx	12-21-22	12-21-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-122*				
Client ID:	**MW2-12/15/22-GW**					
Laboratory ID:	12-215-02					
Gasoline	**ND**	500	NWTPH-Gx	12-21-22	12-21-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*65-122*				
Client ID:	**MW3-12/15/22-GW**					
Laboratory ID:	12-215-03					
Gasoline	**ND**	500	NWTPH-Gx	12-21-22	12-21-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-122*				
Client ID:	**MW4-12/15/22-GW**					
Laboratory ID:	12-215-04					
Gasoline	**ND**	500	NWTPH-Gx	12-21-22	12-21-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*65-122*				
Client ID:	**MW5-12/15/22-GW**					
Laboratory ID:	12-215-05					
Gasoline	**ND**	500	NWTPH-Gx	12-21-22	12-21-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*65-122*				
Client ID:	**MW6-12/15/22-GW**					
Laboratory ID:	12-215-06					
Gasoline	**ND**	500	NWTPH-Gx	12-21-22	12-21-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-122*				

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1221W2					
Gasoline	**ND**	100	NWTPH-Gx	12-21-22	12-21-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*97*	*65-122*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-135-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*91*	*91*	*65-122*			

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW1-12/15/22-GW**					
Laboratory ID:	12-215-01					
Diesel Range Organics	**ND**	0.21	NWTPH-Dx	12-27-22	12-27-22	
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**MW2-12/15/22-GW**					
Laboratory ID:	12-215-02					
Diesel Range Organics	**ND**	0.22	NWTPH-Dx	12-27-22	12-27-22	
Lube Oil Range Organics	**0.24**	0.22	NWTPH-Dx	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**MW3-12/15/22-GW**					
Laboratory ID:	12-215-03					
Diesel Range Organics	**ND**	0.23	NWTPH-Dx	12-27-22	12-27-22	
Lube Oil Range Organics	**ND**	0.23	NWTPH-Dx	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				
Client ID:	**MW4-12/15/22-GW**					
Laboratory ID:	12-215-04					
Diesel Range Organics	**ND**	0.23	NWTPH-Dx	12-27-22	12-27-22	
Lube Oil Range Organics	**ND**	0.23	NWTPH-Dx	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*61*	*50-150*				
Client ID:	**MW5-12/15/22-GW**					
Laboratory ID:	12-215-05					
Diesel Range Organics	**ND**	0.22	NWTPH-Dx	12-27-22	12-27-22	
Lube Oil Range Organics	**ND**	0.22	NWTPH-Dx	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				
Client ID:	**MW6-12/15/22-GW**					
Laboratory ID:	12-215-06					
Diesel Range Organics	**ND**	0.22	NWTPH-Dx	12-27-22	12-27-22	
Lube Oil Range Organics	**ND**	0.22	NWTPH-Dx	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W1					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	12-27-22	12-27-22	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*71*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	SB1227W1									
	ORIG	DUP								
Diesel Fuel #2	**0.302**	**0.273**	NA	NA		NA	NA	10	NA	
Surrogate:										
o-Terphenyl						*64*	*60*	*50-150*		

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW1-12/15/22-GW**					
Laboratory ID:	12-215-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloromethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Vinyl Chloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromomethane	ND	1.8	EPA 8260D	12-26-22	12-26-22	
Chloroethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Acetone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Iodomethane	ND	6.4	EPA 8260D	12-26-22	12-26-22	
Carbon Disulfide	ND	0.26	EPA 8260D	12-26-22	12-26-22	
Methylene Chloride	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Vinyl Acetate	ND	1.0	EPA 8260D	12-26-22	12-26-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Butanone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Bromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloroform	3.5	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Benzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Trichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Dibromomethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromodichloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Toluene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW1-12/15/22-GW**					
Laboratory ID:	12-215-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Tetrachloroethene	1.7	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Hexanone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Dibromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	12-26-22	12-26-22	
o-Xylene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Styrene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromoform	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Isopropylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Propylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Naphthalene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*111*	*75-127*				
Toluene-d8	*105*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW2-12/15/22-GW**					
Laboratory ID:	12-215-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloromethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Vinyl Chloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromomethane	ND	1.8	EPA 8260D	12-26-22	12-26-22	
Chloroethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Acetone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Iodomethane	ND	6.4	EPA 8260D	12-26-22	12-26-22	
Carbon Disulfide	0.33	0.26	EPA 8260D	12-26-22	12-26-22	Y
Methylene Chloride	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Vinyl Acetate	ND	1.0	EPA 8260D	12-26-22	12-26-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Butanone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Bromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloroform	2.9	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Benzene	0.22	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Trichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Dibromomethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromodichloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Toluene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW2-12/15/22-GW**					
Laboratory ID:	12-215-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Tetrachloroethene	1.7	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Hexanone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Dibromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	12-26-22	12-26-22	
o-Xylene	0.20	0.20	EPA 8260D	12-26-22	12-26-22	
Styrene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromoform	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Isopropylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Propylbenzene	0.23	0.20	EPA 8260D	12-26-22	12-26-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
p-Isopropyltoluene	0.31	0.20	EPA 8260D	12-26-22	12-26-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Butylbenzene	0.21	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Naphthalene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*111*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*93*	*78-125*				

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW3-12/15/22-GW**					
Laboratory ID:	12-215-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloromethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Vinyl Chloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromomethane	ND	1.8	EPA 8260D	12-26-22	12-26-22	
Chloroethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Acetone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Iodomethane	ND	6.4	EPA 8260D	12-26-22	12-26-22	
Carbon Disulfide	ND	0.26	EPA 8260D	12-26-22	12-26-22	
Methylene Chloride	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Vinyl Acetate	ND	1.0	EPA 8260D	12-26-22	12-26-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Butanone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Bromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloroform	2.7	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Benzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Trichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Dibromomethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromodichloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Toluene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	

Date of Report: December 27, 2022
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW3-12/15/22-GW**					
Laboratory ID:	12-215-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Tetrachloroethene	1.4	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Hexanone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Dibromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	12-26-22	12-26-22	
o-Xylene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Styrene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromoform	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Isopropylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Propylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Naphthalene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW4-12/15/22-GW**					
Laboratory ID:	12-215-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloromethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Vinyl Chloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromomethane	ND	1.8	EPA 8260D	12-26-22	12-26-22	
Chloroethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Acetone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Iodomethane	ND	6.4	EPA 8260D	12-26-22	12-26-22	
Carbon Disulfide	0.36	0.26	EPA 8260D	12-26-22	12-26-22	Y
Methylene Chloride	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Vinyl Acetate	ND	1.0	EPA 8260D	12-26-22	12-26-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Butanone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Bromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloroform	2.5	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Benzene	0.23	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Trichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Dibromomethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromodichloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Toluene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW4-12/15/22-GW**					
Laboratory ID:	12-215-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Tetrachloroethene	1.1	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Hexanone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Dibromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	12-26-22	12-26-22	
o-Xylene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Styrene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromoform	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Isopropylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Propylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Naphthalene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*91*	*78-125*				

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW5-12/15/22-GW**					
Laboratory ID:	12-215-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloromethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Vinyl Chloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromomethane	ND	1.8	EPA 8260D	12-26-22	12-26-22	
Chloroethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Acetone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Iodomethane	ND	6.4	EPA 8260D	12-26-22	12-26-22	
Carbon Disulfide	0.34	0.26	EPA 8260D	12-26-22	12-26-22	Y
Methylene Chloride	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Vinyl Acetate	ND	1.0	EPA 8260D	12-26-22	12-26-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Butanone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Bromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloroform	2.6	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Benzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Trichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Dibromomethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromodichloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Toluene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW5-12/15/22-GW**					
Laboratory ID:	12-215-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Tetrachloroethene	1.6	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Hexanone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Dibromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	12-26-22	12-26-22	
o-Xylene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Styrene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromoform	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Isopropylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Propylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Naphthalene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW6-12/15/22-GW**					
Laboratory ID:	12-215-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloromethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Vinyl Chloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromomethane	ND	1.8	EPA 8260D	12-26-22	12-26-22	
Chloroethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Acetone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Iodomethane	ND	6.4	EPA 8260D	12-26-22	12-26-22	
Carbon Disulfide	ND	0.26	EPA 8260D	12-26-22	12-26-22	
Methylene Chloride	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Vinyl Acetate	ND	1.0	EPA 8260D	12-26-22	12-26-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Butanone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Bromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloroform	2.9	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Benzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Trichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Dibromomethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromodichloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Toluene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW6-12/15/22-GW**					
Laboratory ID:	12-215-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Tetrachloroethene	1.3	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Hexanone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Dibromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	12-26-22	12-26-22	
o-Xylene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Styrene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromoform	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Isopropylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Propylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Naphthalene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1226W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloromethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Vinyl Chloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromomethane	ND	1.8	EPA 8260D	12-26-22	12-26-22	
Chloroethane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Acetone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Iodomethane	ND	6.4	EPA 8260D	12-26-22	12-26-22	
Carbon Disulfide	ND	0.26	EPA 8260D	12-26-22	12-26-22	
Methylene Chloride	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Vinyl Acetate	ND	1.0	EPA 8260D	12-26-22	12-26-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Butanone	ND	5.0	EPA 8260D	12-26-22	12-26-22	
Bromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chloroform	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Benzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Trichloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Dibromomethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromodichloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Toluene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-26-22	12-26-22	

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1226W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Tetrachloroethene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Hexanone	ND	2.0	EPA 8260D	12-26-22	12-26-22	
Dibromochloromethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Chlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Ethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
m,p-Xylene	ND	0.40	EPA 8260D	12-26-22	12-26-22	
o-Xylene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Styrene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromoform	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Isopropylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Bromobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Propylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
n-Butylbenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
Naphthalene	ND	1.0	EPA 8260D	12-26-22	12-26-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-26-22	12-26-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*90*	*78-125*				

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1226W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**8.62**	**7.97**	10.0	10.0	86	80	34-166	8	21	
Chloromethane	**8.68**	**8.45**	10.0	10.0	87	85	63-138	3	18	
Vinyl Chloride	**8.77**	**8.62**	10.0	10.0	88	86	71-135	2	20	
Bromomethane	**5.56**	**6.16**	10.0	10.0	56	62	20-151	10	36	
Chloroethane	**8.61**	**8.48**	10.0	10.0	86	85	76-125	2	20	
Trichlorofluoromethane	**8.68**	**8.70**	10.0	10.0	87	87	75-131	0	19	
1,1-Dichloroethene	**9.14**	**9.30**	10.0	10.0	91	93	78-125	2	19	
Acetone	**8.64**	**8.53**	10.0	10.0	86	85	76-125	1	18	
Iodomethane	**7.75**	**8.57**	10.0	10.0	78	86	10-155	10	40	
Carbon Disulfide	**7.80**	**7.78**	10.0	10.0	78	78	58-129	0	17	
Methylene Chloride	**8.40**	**8.40**	10.0	10.0	84	84	80-120	0	15	
(trans) 1,2-Dichloroethene	**9.03**	**9.16**	10.0	10.0	90	92	80-125	1	17	
Methyl t-Butyl Ether	**9.23**	**9.53**	10.0	10.0	92	95	80-122	3	15	
1,1-Dichloroethane	**8.99**	**9.23**	10.0	10.0	90	92	80-125	3	17	
Vinyl Acetate	**9.20**	**9.45**	10.0	10.0	92	95	80-131	3	15	
2,2-Dichloropropane	**9.61**	**10.1**	10.0	10.0	96	101	80-146	5	21	
(cis) 1,2-Dichloroethene	**9.20**	**9.41**	10.0	10.0	92	94	80-129	2	17	
2-Butanone	**9.19**	**9.18**	10.0	10.0	92	92	80-129	0	16	
Bromochloromethane	**9.46**	**9.93**	10.0	10.0	95	99	80-125	5	18	
Chloroform	**8.95**	**9.26**	10.0	10.0	90	93	80-123	3	16	
1,1,1-Trichloroethane	**8.90**	**9.14**	10.0	10.0	89	91	80-123	3	18	
Carbon Tetrachloride	**8.95**	**9.09**	10.0	10.0	90	91	80-126	2	17	
1,1-Dichloropropene	**8.95**	**9.23**	10.0	10.0	90	92	80-126	3	18	
Benzene	**8.74**	**9.02**	10.0	10.0	87	90	80-121	3	16	
1,2-Dichloroethane	**9.06**	**9.22**	10.0	10.0	91	92	80-124	2	15	
Trichloroethene	**9.15**	**9.36**	10.0	10.0	92	94	80-122	2	18	
1,2-Dichloropropane	**9.31**	**9.51**	10.0	10.0	93	95	80-123	2	15	
Dibromomethane	**9.16**	**9.31**	10.0	10.0	92	93	80-123	2	15	
Bromodichloromethane	**9.57**	**9.94**	10.0	10.0	96	99	80-125	4	15	
(cis) 1,3-Dichloropropene	**9.64**	**10.0**	10.0	10.0	96	100	80-129	4	15	
Methyl Isobutyl Ketone	**9.37**	**9.58**	10.0	10.0	94	96	80-124	2	15	
Toluene	**8.78**	**9.02**	10.0	10.0	88	90	80-120	3	18	
(trans) 1,3-Dichloropropene	**10.5**	**11.0**	10.0	10.0	105	110	80-134	5	17	

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

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QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1226W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**10.2**	**10.7**	10.0	10.0	102	107	77-126	5	20	
Tetrachloroethene	**9.82**	**10.0**	10.0	10.0	98	100	80-124	2	18	
1,3-Dichloropropane	**10.1**	**10.5**	10.0	10.0	101	105	80-120	4	15	
2-Hexanone	**10.2**	**10.6**	10.0	10.0	102	106	80-130	4	16	
Dibromochloromethane	**10.2**	**10.4**	10.0	10.0	102	104	80-128	2	15	
1,2-Dibromoethane	**9.95**	**10.3**	10.0	10.0	100	103	80-127	3	15	
Chlorobenzene	**9.79**	**10.0**	10.0	10.0	98	100	80-120	2	17	
1,1,1,2-Tetrachloroethane	**10.0**	**10.4**	10.0	10.0	100	104	80-125	4	17	
Ethylbenzene	**10.0**	**10.4**	10.0	10.0	100	104	80-125	4	18	
m,p-Xylene	**20.2**	**20.6**	20.0	20.0	101	103	80-127	2	18	
o-Xylene	**10.0**	**10.4**	10.0	10.0	100	104	80-126	4	18	
Styrene	**10.4**	**10.9**	10.0	10.0	104	109	80-130	5	17	
Bromoform	**10.5**	**11.2**	10.0	10.0	105	112	80-130	6	15	
Isopropylbenzene	**10.2**	**10.6**	10.0	10.0	102	106	80-129	4	18	
Bromobenzene	**10.2**	**10.6**	10.0	10.0	102	106	76-128	4	16	
1,1,2,2-Tetrachloroethane	**10.3**	**10.8**	10.0	10.0	103	108	74-130	5	15	
1,2,3-Trichloropropane	**9.85**	**10.4**	10.0	10.0	99	104	71-129	5	25	
n-Propylbenzene	**10.4**	**10.8**	10.0	10.0	104	108	80-129	4	19	
2-Chlorotoluene	**10.3**	**10.7**	10.0	10.0	103	107	80-128	4	18	
4-Chlorotoluene	**10.5**	**10.8**	10.0	10.0	105	108	80-130	3	19	
1,3,5-Trimethylbenzene	**10.4**	**10.8**	10.0	10.0	104	108	80-131	4	18	
tert-Butylbenzene	**10.3**	**10.7**	10.0	10.0	103	107	80-130	4	18	
1,2,4-Trimethylbenzene	**10.5**	**10.8**	10.0	10.0	105	108	80-130	3	18	
sec-Butylbenzene	**10.5**	**10.8**	10.0	10.0	105	108	80-130	3	18	
1,3-Dichlorobenzene	**10.3**	**10.8**	10.0	10.0	103	108	80-126	5	17	
p-Isopropyltoluene	**10.6**	**10.9**	10.0	10.0	106	109	80-132	3	18	
1,4-Dichlorobenzene	**10.3**	**10.7**	10.0	10.0	103	107	80-121	4	17	
1,2-Dichlorobenzene	**10.1**	**10.6**	10.0	10.0	101	106	79-125	5	15	
n-Butylbenzene	**10.5**	**11.0**	10.0	10.0	105	110	80-138	5	19	
1,2-Dibromo-3-chloropropane	**10.3**	**11.0**	10.0	10.0	103	110	73-133	7	15	
1,2,4-Trichlorobenzene	**10.7**	**11.7**	10.0	10.0	107	117	80-139	9	18	
Hexachlorobutadiene	**9.84**	**11.0**	10.0	10.0	98	110	80-151	11	18	
Naphthalene	**10.3**	**11.6**	10.0	10.0	103	116	68-144	12	25	
1,2,3-Trichlorobenzene	**10.1**	**11.8**	10.0	10.0	101	118	75-146	16	28	
Surrogate:										
Dibromofluoromethane					*105*	*106*	*75-127*			
Toluene-d8					*101*	*102*	*80-127*			
4-Bromofluorobenzene					*93*	*94*	*78-125*			

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW1-12/15/22-GW**					
Laboratory ID:	12-215-01					
Arsenic	**28**	17	EPA 200.8	12-21-22	12-21-22	
Barium	**580**	140	EPA 200.8	12-21-22	12-21-22	
Cadmium	**ND**	4.4	EPA 200.8	12-21-22	12-21-22	
Chromium	**150**	56	EPA 200.8	12-21-22	12-21-22	
Lead	**26**	5.6	EPA 200.8	12-21-22	12-21-22	
Mercury	**ND**	0.50	EPA 7470A	12-23-22	12-23-22	
Selenium	**ND**	5.6	EPA 200.8	12-21-22	12-21-22	
Silver	**ND**	11	EPA 200.8	12-21-22	12-21-22	
Client ID:	**MW2-12/15/22-GW**					
Laboratory ID:	12-215-02					
Arsenic	**34**	17	EPA 200.8	12-21-22	12-21-22	
Barium	**1300**	350	EPA 200.8	12-21-22	12-23-22	
Cadmium	**ND**	4.4	EPA 200.8	12-21-22	12-21-22	
Chromium	**210**	56	EPA 200.8	12-21-22	12-21-22	
Lead	**75**	5.6	EPA 200.8	12-21-22	12-21-22	
Mercury	**0.58**	0.50	EPA 7470A	12-23-22	12-23-22	
Selenium	**ND**	5.6	EPA 200.8	12-21-22	12-21-22	
Silver	**ND**	11	EPA 200.8	12-21-22	12-21-22	
Client ID:	**MW3-12/15/22-GW**					
Laboratory ID:	12-215-03					
Arsenic	**43**	17	EPA 200.8	12-21-22	12-21-22	
Barium	**1100**	350	EPA 200.8	12-21-22	12-23-22	
Cadmium	**ND**	4.4	EPA 200.8	12-21-22	12-21-22	
Chromium	**340**	56	EPA 200.8	12-21-22	12-21-22	
Lead	**73**	5.6	EPA 200.8	12-21-22	12-21-22	
Mercury	**ND**	0.50	EPA 7470A	12-23-22	12-23-22	
Selenium	**6.7**	5.6	EPA 200.8	12-21-22	12-21-22	
Silver	**ND**	11	EPA 200.8	12-21-22	12-21-22	

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW4-12/15/22-GW**					
Laboratory ID:	12-215-04					
Arsenic	**66**	17	EPA 200.8	12-21-22	12-21-22	
Barium	**1900**	350	EPA 200.8	12-21-22	12-23-22	
Cadmium	**ND**	4.4	EPA 200.8	12-21-22	12-21-22	
Chromium	**320**	56	EPA 200.8	12-21-22	12-21-22	
Lead	**77**	5.6	EPA 200.8	12-21-22	12-21-22	
Mercury	**1.3**	0.50	EPA 7470A	12-23-22	12-23-22	
Selenium	**7.1**	5.6	EPA 200.8	12-21-22	12-21-22	
Silver	**ND**	11	EPA 200.8	12-21-22	12-21-22	
Client ID:	**MW5-12/15/22-GW**					
Laboratory ID:	12-215-05					
Arsenic	**28**	17	EPA 200.8	12-21-22	12-21-22	
Barium	**690**	140	EPA 200.8	12-21-22	12-21-22	
Cadmium	**ND**	4.4	EPA 200.8	12-21-22	12-21-22	
Chromium	**180**	56	EPA 200.8	12-21-22	12-21-22	
Lead	**38**	5.6	EPA 200.8	12-21-22	12-21-22	
Mercury	**ND**	0.50	EPA 7470A	12-23-22	12-23-22	
Selenium	**ND**	5.6	EPA 200.8	12-21-22	12-21-22	
Silver	**ND**	11	EPA 200.8	12-21-22	12-21-22	
Client ID:	**MW6-12/15/22-GW**					
Laboratory ID:	12-215-06					
Arsenic	**150**	17	EPA 200.8	12-21-22	12-21-22	
Barium	**1900**	350	EPA 200.8	12-21-22	12-23-22	
Cadmium	**ND**	4.4	EPA 200.8	12-21-22	12-21-22	
Chromium	**330**	56	EPA 200.8	12-21-22	12-21-22	
Lead	**140**	5.6	EPA 200.8	12-21-22	12-21-22	
Mercury	**2.1**	0.50	EPA 7470A	12-23-22	12-23-22	
Selenium	**11**	5.6	EPA 200.8	12-21-22	12-21-22	
Silver	**ND**	11	EPA 200.8	12-21-22	12-21-22	

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

TOTAL METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1221WM1					
Arsenic	**ND**	3.3	EPA 200.8	12-21-22	12-21-22	
Barium	**ND**	28	EPA 200.8	12-21-22	12-21-22	
Cadmium	**ND**	4.4	EPA 200.8	12-21-22	12-21-22	
Chromium	**ND**	11	EPA 200.8	12-21-22	12-21-22	
Lead	**ND**	1.1	EPA 200.8	12-21-22	12-21-22	
Selenium	**ND**	5.6	EPA 200.8	12-21-22	12-21-22	
Silver	**ND**	11	EPA 200.8	12-21-22	12-21-22	
Laboratory ID:	MB1223W1					
Mercury	**ND**	0.50	EPA 7470A	12-23-22	12-23-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-001-01									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Laboratory ID:	11-351-08									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	12-001-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**112**	**114**	111	111	ND	**101**	**103**	75-125	2	20
Barium	**121**	**127**	111	111	12.8	**98**	**103**	75-125	5	20
Cadmium	**109**	**114**	111	111	ND	**99**	**103**	75-125	4	20
Chromium	**108**	**111**	111	111	ND	**97**	**100**	75-125	3	20
Lead	**108**	**113**	111	111	ND	**98**	**102**	75-125	4	20
Selenium	**108**	**114**	111	111	ND	**98**	**103**	75-125	5	20
Silver	**107**	**110**	111	111	ND	**97**	**99**	75-125	2	20
Laboratory ID:	11-351-08									
Mercury	**5.85**	**5.85**	6.25	6.25	ND	**94**	**94**	75-125	0	20

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

1,2-DIBROMOETHANE (EDB)
EPA 8011

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW1-12/15/22-GW**					
Laboratory ID:	12-215-01					
EDB	**ND**	0.010	EPA 8011	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*97*	*50-163*				
Client ID:	**MW2-12/15/22-GW**					
Laboratory ID:	12-215-02					
EDB	**ND**	0.010	EPA 8011	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*99*	*50-163*				
Client ID:	**MW3-12/15/22-GW**					
Laboratory ID:	12-215-03					
EDB	**ND**	0.010	EPA 8011	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*86*	*50-163*				
Client ID:	**MW4-12/15/22-GW**					
Laboratory ID:	12-215-04					
EDB	**ND**	0.010	EPA 8011	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*79*	*50-163*				
Client ID:	**MW5-12/15/22-GW**					
Laboratory ID:	12-215-05					
EDB	**ND**	0.010	EPA 8011	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*100*	*50-163*				
Client ID:	**MW6-12/15/22-GW**					
Laboratory ID:	12-215-06					
EDB	**ND**	0.010	EPA 8011	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*82*	*50-163*				

Date of Report: December 27, 2022
Samples Submitted: December 21, 2022
Laboratory Reference: 2212-215
Project: E2022-1204; 1201 S. 1st St Yakima

1,2-DIBROMOETHANE (EDB)
EPA 8011
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W1					
EDB	**ND**	0.010	EPA 8011	12-27-22	12-27-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*91*	*50-163*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1227W1										
	SB	SBD	SB	SBD		SB	SBD				
EDB	**0.0964**	**0.0922**	0.100	0.100	N/A	**96**	**92**	71-125	4	15	
DBCP	**0.0866**	**0.0865**	0.100	0.100	N/A	**87**	**87**	61-126	0	15	
Surrogate:											
TCMX						*112*	*113*	*50-163*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: BMEC
Project Number: E2022-1204
Project Name: 1201 S. 1st St. Yakima
Project Manager: P. TRABUSINER/B. BELLERON
Sampled by: Y. MEYER

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☒ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-215

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	EDB				% Moisture
1	MW1-12/15/22-GW	12-15-22	0830	H_2O	10			X	X	X									X				X				
2	MW2-12/15/22-GW	↓	0915	↓	↓			↓	↓	↓									↓				↓				
3	MW3-12/15/22-GW		0945																								
4	MW4-12/15/22-GW		1030																								
5	MW5-12/15/22-GW		1120																								
6	MW6-12/15/22-GW		1215																								

	Signature	Company	Date	Time
Relinquished		BMEC	12-19-22	1000
Received		ONE	12/21/22	1200
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐